

Application No. 10/024,244

Art Unit 1713

April 16, 2004

Reply to Office Action of November 17, 2003

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

LISTING OF CLAIMS:

1. (Currently Amended) A random copolymer consisting of units derived from propylene and units derived from a vinyl compound (I) represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$, wherein R is a hydrocarbon group, the steric parameter E_s of the substituent R is -1.64 or less and the steric parameter B_1 of the substituent R is 1.53 or more;

wherein the copolymer contains units of the vinyl compound (I) of 10 to 50 mol%, and

the total amounts of units of the vinyl compound (I) and propylene of the copolymer are 100 mol%.

2. (Previously Presented) The copolymer according to claim 1, wherein the carbon atom at the 3-position of the vinyl compound (I) is a tertiary or quaternary carbon atom.

3. (Previously Presented) The copolymer according to claim 1, wherein the vinyl compound (I) has no branched structure in carbons except the carbon atom at the 3-position.

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4. (Original) The copolymer according to claim 1, wherein the substituent R in the vinyl compound (I) has a cyclic structure.

5. (Original) A molded article comprising the copolymer of claim 1.

6. (Currently Amended) An adhesive comprising:

a random copolymer of units derived from a straight chain α -olefin having 3 to 20 carbon atoms and units derived from a vinyl compound (I) represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$, as an effective ingredient,

wherein R in said general formula is a hydrocarbon group, the steric parameter of Es of the substituent R is -1.64 or less, and the steric parameter of B1 of the substituent R is 1.53 or more,

wherein said copolymer contains the unit derived from the vinyl compound (I) of 1 to ~~80 mol%~~, 80 mol% based on the total amounts of the vinyl compound (I) and the propylene straight chain α -olefin having 3 to 20 carbon atoms in the copolymer ~~are~~ of 100 mol%, and the weight average molecular weight of the copolymer is 1,000 to 1,000,000; and

a solvent selected from the group consisting of water, aromatic hydrocarbons, aliphatic hydrocarbons, ketones and alcohols wherein the solvent is used in an amount of 150 to 3000 parts by weight per 100 parts by weight of the copolymer.

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7. (Previously Presented) The adhesive according to claim 6, wherein the carbon atom at the 3-position of the vinyl compound (I) is a tertiary or quaternary carbon atom.

8. (Previously Presented) The adhesive according to claim 6, wherein the vinyl compound (I) has no branched structure in the carbons except the carbon at the 3-position.

9. (Previously Presented) The adhesive according to claim 6, wherein the substituent R in the vinyl compound (I) has a cyclic structure.

10. (Currently Amended) A laminate in which a layer comprising a random copolymer of units derived from a straight chain α -olefin having 3 to 20 carbon atoms and units derived from a vinyl compound (I) represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$ (wherein R is a hydrocarbon group, the steric parameter E_s of the substituent R is -1.64 or less and the steric parameter B_1 of the substituent R is 1.53 or more), is laminated on an adherend,

wherein the copolymer contains the vinyl compound (I) of 1 to ~~80 mol%~~, 80 mol% based on the total amounts of the vinyl compound (I) and ~~propylene~~ straight chain α -olefin having 3 to 20 carbon atoms in the

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copolymer ~~are~~ of 100 mol%, and the weight average molecular weight of the copolymer is 1,000 to 1,000,000.

11. (Previously Presented) The laminate according to claim 10, wherein the carbon atom at the 3-position of the vinyl compound (I) is a tertiary or quaternary carbon atom.

12. (Previously Presented) The laminate according to claim 11, wherein the vinyl compound (I) has no branched structure in the carbons except the carbon atom at the 3-position.

13. (Previously Presented) The laminate according to claim 12, wherein the substituent R in the vinyl compound (I) has a cyclic structure.

14. (Previously Presented) The adhesive according to claim 6, wherein the straight chain α -olefin having 3 to 20 carbon atoms is propylene.

15. (Previously Presented) The adhesive according to claim 6, wherein the copolymer is a copolymer consisting of units derived from

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the straight chain α -olefin having 3 to 20 carbon atoms and units derived from the vinyl compound (I).

16. (**Previously Presented**) The laminate according to claim 10, wherein the straight chain α -olefin having 3 to 20 carbon atoms is propylene.

17. (**Currently Amended**) The ~~adhesive~~ laminate according to claim 10, wherein the copolymer is a copolymer consisting of units derived from the straight chain α -olefin having 3 to 20 carbon atoms and units derived from the vinyl compound (I).

18. (**New**) The random copolymer according to claim 1, wherein the vinyl compound (I) is vinyl cyclohexane.

19. (**New**) The random copolymer according to claim 6, wherein the straight chain α -olefin having 3 to 20 carbon atoms is propylene and the vinyl compound (I) is vinyl cyclohexane.